

# Cisco Desktop Collaboration Experience DX600 Series

Cisco<sup>®</sup> Desktop Collaboration Experience DX600 Series is a next-generation IP endpoint portfolio that delivers powerful high-quality communications and collaboration for a variety of office environments (Figure 1).

Figure 1. Cisco Desktop Collaboration Experience DX650



#### **Product Overview**

The Cisco Desktop Collaboration Experience DX650 is purpose-built to deliver integrated, always-on and secure, high-definition (HD) voice and video communications, conferencing with Cisco WebEx<sup>®</sup> meeting applications, presence and instant messaging with the Cisco Jabber<sup>™</sup> messaging integration platform, and on-demand access to cloud services. It is intended to meet the demands of people who must collaborate effectively with experts, even if separated by long distances.

Collaboration capabilities are available right out of the box with the Cisco DX650. It provides native support for HD 1080p at 30 frames-per-second (fps); video calling interoperability to other H.264 video endpoints, including Cisco Unified IP Phone 8900 and 9900 Series models; the Cisco Jabber platform on personal mobile devices; and (CTS)-compliant Cisco TelePresence<sup>®</sup> endpoints and room systems.

Integrated browsing provides instant access to cloud services. In addition, because it is Compatibility Test Suite (CTS) compliant with the open Android platform, the Cisco DX650 offers you access to the ecosystem of Cisco and commercial third-party applications developed for Android. Customers can also develop custom applications for Android and deploy them to both their DX650 and mobile users. The Cisco DX650 also takes advantage of the touch-directed ease of use of Android, and its ability to personalize experiences with customizable home screens, communications widgets, ringtones, and more.

The Cisco DX650 is designed for information workers, workers in shared workspace settings, and midlevel and senior executives. Corporate, branch, and virtual offices along with home teleworking environments are just some examples of deployment scenarios.

The Cisco DX650 introduces a new era in employee productivity, fostering new opportunities to collaborationenable your business processes and workflows, advancing your business results and meeting your business needs for both today and tomorrow.

The main attributes of the Cisco DX650 include:

- Integrated 7-inch touchscreen, with support for multitouch gestures
- HD video with H.264 Advanced Video Coding (AVC) video calling up to 1080p at 30 fps
- Choice of 802.11 a/b/g/n desktop Wi-Fi connectivity or Gigabit Ethernet network connectivity, and switch port available for a downstream PC
- Embedded Bluetooth radio and 2 full-size USB 2.0 ports for headsets and the camera
- Dual Independent Displays with an external monitor using High-Definition Multimedia Interface (HDMI) with resolution up to 1920 x 1200
- Android 4.0 operating system and Google Play Store access for third-party applications
- Integrated suites of collaborative applications: Cisco WebEx conferencing and Cisco Jabber Instant
  Messaging (IM), presence, email, calendar, contacts, visual voicemail, and voice and video through Cisco
  Unified Communications Manager
- Support for Cisco Unified Communications features, devices, and applications management and security policies from Cisco Unified Communications Manager 7.1.5, 8.5.1, 8.6.2, and later with system releases

### **Product Features and Specifications**

Tables 1 through 3 summarize specifications, features, and other information.

Table 1. Product Specifications

Feature	Benefit
Hardware	
Ergonomic design	Touch-based phone application provides intuitive arrangement of lines, features, and calls. Transfer, Conference, and Hold appear on hard keys
Display	<ul> <li>7-in. diagonal (153.6 Horizontal x 90.0 Vertical)</li> <li>Backlit, WSVGA capacitive touchscreen LCD with 1024 x 600 pixel effective resolution</li> <li>Support for various multitouch gesture commands to interact with contacts, collaboration applications, voice and video calling, and third-party applications</li> </ul>
Front camera	<ul> <li>HD video communication with Cisco TelePresence interoperability and other H.264 video endpoint interoperation for immersive video communication</li> <li>Capable of 1080p 30-fps HD video encoding and decoding</li> <li>LED indicator to show video status</li> </ul>
Operating system	Android 4.0.1 (Ice Cream Sandwich)
Processor	TI OMAP 4460 1.5 GHz
Storage	8-GB eMMC flash memory
Memory	1-GB RAM

Feature	Benefit
Ports and slots	HDMI  3.5-mm stereo headset jack (can be used for external speakers)  2 full-size USB (keyboard, mouse, and headset connectivity)  Micro USB  Micro Secure Digital (SD) slot
Physical buttons	Conference Transfer Hold End Call Volume Up/Down Back-lit Mute Video Mute Speakerphone Headset Lock button
Visual indicator	<ul> <li>Message-waiting indicator (MWI) on handset</li> <li>Cisco EnergyWise<sup>™</sup> Sleep Indicator on Lock button</li> </ul>
Physical dimensions (H x W x D)	11.63 x 10.25 x 1.88 in. (29.5 x 26 x 4.8 cm) In slab mode with the foot stand removed
Power	IEEE Power over Ethernet (PoE) 802.3af and 802.3at are supported, and class 4 is supported. The DX650 is compatible with both class 3 and class 4 IEEE PoE switch blades and supports both Cisco Discovery Protocol and Link Layer Discovery Protocol - Power over Ethernet (LLDP-PoE)
Connectivity	
Ethernet	Internal 2-port Cisco Ethernet switch allows for a direct connection to a 10/100/1000BASE-T Ethernet network through an RJ-45 interface with single LAN connectivity for both the phone and a co-located PC. The system administrator can designate separate VLANs (802.1Q) for the PC and phone, providing improved security and reliability of voice and data traffic
Desktop Wi-Fi Ethernet	As an alternative to wired Ethernet, this model supports an onboard Wi-Fi radio and antenna that enables connectivity to a Wi-Fi access point, thereby saving on the labor costs of pulling Ethernet cables to every work location
Network features	<ul> <li>Cisco Discovery Protocol</li> <li>LLDP-PoE</li> <li>Session Initiation Protocol (SIP) for signaling</li> <li>Dynamic Host Configuration Protocol (DHCP) client or static configuration</li> <li>Transparent secure roaming</li> <li>Switch auto-negotiation</li> <li>Domain Name System (DNS)</li> <li>Web proxy</li> <li>NT LAN Manager (NTLM) and Kerberos authentication</li> <li>Trivial File Transfer Protocol (TFTP)</li> <li>HTTP firmware management</li> <li>Wi-Fi management</li> <li>IPv4 configuration</li> <li>Software port speed</li> <li>PC port speed</li> </ul>
Bluetooth	<ul> <li>Bluetooth 2.1 + Enhanced Data Rate (EDR), allowing untethered headset connections</li> <li>Keyboard and mouse support for adding additional input accessories</li> <li>Human Interface Device, hands-free and headset Bluetooth profiles</li> </ul>
Accessories	
Cisco Solutions Plus external camera	Available separately, the Logitech Webcam C920-C for the Jabber® platform provides an external camera option for up to 1080p 30-fps video calls with an external display

Feature	Benefit
Firmware	
Provisioning and management	<ul> <li>Cisco Unified Communications Manager 8.6.2</li> <li>Backward compatibility with Cisco Unified Communications Manager 7.1.5 and 8.5.1 (no support for Android package [APK] provisioning in 7.1.5)</li> </ul>
Upgrading process	<ul> <li>Software upgrade of the device and media station through Cisco Unified Communications Manager</li> <li>Support for online firmware upgrades using TFTP</li> <li>HTTP firmware management</li> </ul>
Temperature range	
Operational temperature	23~131F (-5~55°C)
Nonoperational temperature shock	-13~158℉ (-25~70℃)
Temperature: Altitude (operational)	140年 (40℃) ambient condition to 9843 ft (3000m)
Temperature: Altitude (nonoperational)	Ambient condition to 15,000 ft (4572m)
Temperature: Humidity (nonoperational)	90% ± 5% relative humidity
Nonoperational hot temperature (storage)	158°F (70℃) ±2℃
Nonoperational cold temperature (storage)	-40♥ (-40℃) ±2℃

 Table 2.
 Software Features

Feature	Specifications
Android bundled applications	<ul> <li>Google Play (enabled by administrator through Cisco Unified Communications Manager; includes country-approved Google mobile services applications)</li> <li>Calculator</li> <li>Calendar</li> <li>Camera</li> <li>Clock</li> <li>Contacts</li> <li>Email (Internet Message Access Protocol [IMAP], Point of Presence 3 [POP3], and Microsoft Exchange (Active Sync) supported)</li> <li>Gallery</li> <li>Phone</li> <li>Video player</li> <li>Web browser</li> </ul>
Cisco bundled applications	<ul> <li>Cisco AnyConnect<sup>®</sup> Secure Mobility Client (VPN) Version 3.0</li> <li>Cisco Jabber IM (which offers chat and presence capabilities)</li> <li>Cisco WebEx conferencing Version 2.5</li> <li>Unified Inbox</li> <li>Visual voicemail</li> </ul>

Feature	Specifications
Feature  Language support	Arabic, Egypt (ar_EG) Bulgarian, Bulgaria (bg_BG) Catalan, Spain (ca_ES) Chinese, PRC (zh_CN) Chinese, Taiwan (zh_TW) Croatian, Croatia (hr_HR) Czech, Czech Republic (cs_CZ) Danish, Denmark (da_DK) Dutch, Netherlands (nl_NL) English, Britain (en_GB) English, United States (en_US) Finnish, Finland (fl_FI) French, France (fr_FR) German, Germany (de_DE) Greek, Greece (el_GR) Hebrew, Israel (he_IL) Hungarian, Hungary (hu_HU) Italian, Italy (it_IT) Japanese (ja_JP) Korean (ko_KR) Latvian, Latvia (lt_LT) Lithuanian, Lithuania (lt_LT) Norwegian bokmál, Norway (nb_NO) Polish (pl_PL) Portuguese, Brazil (pt_BR) Portuguese, Portugal (pt_PT) Romanian, Romania (ro_RO) Russian (ru_RU) Serbian, Republic of Serbia (sr_RS) Slovak, Slovakia (sk_SK) Slovenian, Slovenia (sl_SI) Spanish, Spain (es_ES) Swedish, Sweden (sv_SE) Thai, Thailand (th_TH) Turkish, Turkey (tr_TR)
Calling feature support	<ul> <li>+ Dialing</li> <li>Abbreviated dialing</li> <li>Adjustable ringing and volume levels</li> <li>Adjustable display brightness</li> <li>Auto-answer</li> <li>Auto-detection of headset</li> <li>Barge</li> <li>Callback</li> <li>Call forward</li> <li>Call forward notification</li> <li>Call history lists</li> <li>Call park</li> <li>Call pickup</li> <li>Call timer</li> <li>Call waiting</li> <li>Caller ID</li> <li>Corporate directory</li> <li>Conference</li> <li>Direct transfer</li> <li>Extension mobility service</li> </ul>

Fast-dial service	Forced access codes and client matter codes   Gioup call pickup   Hold   Intercom   Immediate divert   Join   Last-number redial   Malicious-caller ID   Message-waiting indicator   Network profiles (automatic)   On-and off-network distinctive ringing   OplickUp   Personal directory   Prediating before sending   Phywacy   Ring tone per line appearance   Service URL   Shared line   Time and date display   Timeser   Visual Voicemail   Voicemail   Voicemail   Security Features   Visual Voicemail   Security Features   S	Forced access codes and client matter codes   Group cell pickup   Hold   Intercorn   Immediate divert   Jain   Last-number redial   Milaticious-caller ID   Message-vasiting indicator   Network profilies (automatic)   On- and off-network distinctive ringing   OPIckUp   Personal directory   Predaling before sending   Privacy   Pr	Feature	Specifications
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OPickUp Personal directory Predialing before sending Privacy Ring tone per line appearance Service URL Shared line Time and date display Transfer Voisual Voicemail Audio codec support (i,LBC) audio compression codecs  Security Features  Hardware  Secure credential storage Image authentication and encryption Random bit generation Hardware cryptographic acceleration Hardware cryptographic pacceleration Hardware cryptographic acceleration Hardware cryptographic acceleration Hardware cryptographic acceleration Hardware cryptographic acceleration Hardware cryptographic pacceleration Hardware cryptographic acceleration Hardware cryptographic pacceleration Hardware cryptographic acceleration Hardware cryptograp	OPickUp   Personal directory   Personal directory   Predialing before sending   Privacy   Ring tone per line appearance   Service URL   Shared line   Time and date display   Transfer   Vicemail   Voicemail	OPickUp     Personal directory     Predalling before sending     Privacy     Ring tone per line appearance     Service URL     Shared line     Time and date display     Transfer     Visual Voicemail     Voic		Network profiles (automatic)
Personal directory Predialing before sending Privacy Ring tone per line appearance Service URL Shared line Time and date display Transfer Visual Voicemail Voicemail Voicemail Audio codec support G7.11a, G7.29a, G.7.29ab, G.7.22, Internet Speech Audio Codec (iSAC), and Internet Low Bitrate Codec (iLBC) audio compression codecs  Security Features  Hardware  Secure boot Secure credential storage Image authentication and encryption Random bit generation Hardware cryptographic acceleration Encrypted file system  Certificate management Wired: 802.1x Transport Layer Security (TLS) Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FASTI) Wireless Equivalent Privacy (WEP) Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data Cisco AnyConnect Secure Mobility Client	Personal directory   Predialing before sending   Privacy   Priva	Personal directory Predialing before sending Privacy Ring tone per line appearance Service URL Shared line Time and date display Transfer Visual Voicemail V		On- and off-network distinctive ringing
Predialing before sending Privacy Ring tone per line appearance Service URL Shared line Time and date display Transfer Voisual Voicemail Voicemail Audio codec support G,11a, G,711u, G,729a, G,729ab, G,722, Internet Speech Audio Codec (iSAC), and Internet Low Bitrate Codec (iLBC) audio compression codecs  Security Features  Hardware  Secure credential storage Image authentication and encryption Random bit generation Hardware cryptographic acceleration Encrypted file system  Certificate management Wirel: 802.1x Transport Layer Security (TLS) Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FAST)) Wireless: Quivalent Privacy (WEP) Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data  * TLS and Secure Real-Time Transport Protocol (SRTP) Secure HTTP (HTTPS) for clients  Enterprise access Cisco AnyConnect Secure Mobility Client	Predialing before sending   Privacy   Ring tone per line appearance   Service URL   Shared line   Transfer   Visual Voicemail   Voicemail   Voicemail   Voicemail   Voicemail   Voicemail   Privacy   Privacy   Voicemail	Predialing before sending Privacy Ring tone per line appearance Service URL Shared line Time and date display Times displa		·
Privacy Ring tone per line appearance Service URL Shared line Time and date display Transfer Visual Voicemail Audio codec support G.711a, G.711u, G.729a, G.729ab, G.722, Internet Speech Audio Codec (iSAC), and Internet Low Bitrate Codec (iLBC) audio compression codecs  Security Features  Hardware  Secure boot Secure credential storage Image authentication and encryption Random bit generation Hardware cryptographic acceleration Encrypted file system  Certificate management Wired: 802.1x Transport Layer Security (TLS) Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FAST)) Wireless Equivalent Privacy (WEP) Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data Privacy (Sicure Noticeled Secure Mobility Client  Finerprise access Cisco AnyConnect Secure Mobility Client	Privacy   Ring tone per line appearance   Service URL   Shared line   Time and date display   Transfer   Visual Voicemail   Voicemail   Voicemail   Voicemail   Voicemail   Voicemail   Radio codec support   Radio compression codecs   Radio codec (ISAC), and Internet Low Bitrate Codec (ILBC) audio compression codecs	Privacy   Ring tone per line appearance   Service URL   Shared line   Time and date display   Transfer   Visual Voicemail		
Ring tone per line appearance     Service URL     Shared line     Time and date display     Transfer     Visual Voicemail     Voicemail  Audio codec support     G.711a, G.729a, G.729ab, G.722, Internet Speech Audio Codec (ISAC), and Internet Low Bitrate Codec (ILBC) audio compression codecs  Security Features  Hardware      Secure credential storage     Image authentication and encryption     Random bit generation     Hardware cryptographic acceleration     Encrypted file system  Certificate management     Metwork      Wirec: 802.1x Transport Layer Security (TLS)     Wirece: 802.1x Transport Layer Security (TLS)     Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FAST))     Wireless Equivalent Privacy (WEP)     Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)     Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data      **Cisco AnyConnect Secure Mobility Client**	Ring tone per line appearance   Service URL   Shared line   Time and date display   Transfer   Voicemail   Voice	Ring tone per line appearance Service URL Shared line Time and date display Transfer Voicemail  Audio codec support G.711a, G.711u, G.729a, G.729ab, G.722, Internet Speech Audio Codec (ISAC), and Internet Low Bitrate Codec (IBC) audio compression codecs  Security Features  Hardware  Secure to Secure boot Secure credential storage Image authentication and encryption Random bit generation Hardware cryptographic acceleration Hardware cryptographic acceleration Certificate management  Media and data  Wired: 802.1x Transport Layer Security (TLS) Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tumleing (EAP-RSTT) Wireless Equivalent Privacy (WEP) Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data  **TLS and Secure Real-Time Transport Protocol (SRTP) Secure HTTP (HTTPS) for clients  Enterprise access  **Cisco AnyConnect Secure Mobility Client Web Proxy NTLM and Kerberos authentication  Device Management  **Remote wipe ActiveSync remote wipe (email, contacts, calendar, etc.) Self-service wipe Wipe after unsuccessful login attempts		
Service URL Shared line Time and date display Transfer Visual Voicemail Voicemail  Audio codec support G.711a, G.711u, G.729a, G.729ab, G.722, Internet Speech Audio Codec (iSAC), and Internet Low Bitrate Codec (iLBC) audio compression codecs  **Part of the Code Code Code Code Code Code Code Cod	Service URL   Shared line   Time and date display   Transfer   Visual Voicemail   Visioemail	Service URL   Shared line   Time and date display   Transfer   Visual Voicemail   Voicem		· ·
Security Features  Hardware  Certificate management  Network  Network  Network  Network  Media and data  **Clisco AnyConnect Secure Real-Time Transport Protocol (SRTP)  **Escure Real-Time Transport Protocol (SRTP)  **Secure HTTP (HTTPS) for clients  **Clisco AnyConnect Secure Modine Codes (ISAC) (SRTP)  **Secure Image authentication Protocol (SRTP)  **Enterprise access  **Clisco AnyConnect Secure Real-Time Transport Protocol (SRTP)  **Secure HTTP (HTTPS) for clients  **Clisco AnyConnect Secure Modility Client  **Clisco AnyConnect Secure Mobility Client  **Clisco AnyConnect Secure Modility Client  **Clisco AnyConnect Secure Modili	Security Features  Hardware  Secure credential storage I management Audio code support  Secure credential storage I management Secure credential storage I management Secure credential storage I mage authentication and encryption Hardware cryptographic acceleration Hardware  Admirature-intensificates  Hardware  Admirature-intensificates  Hardware  Admirature-intensificates  Hardware  Active Secure Real-Time Transport Protocol (SRTP) Hardware  Active Secure Real-Time Tran	Shared line Time and date display Transfer Visual Voicemail Voicemail  Audio codec support  G. 711a, G.711u, G.729a, G.729ab, G.722, Internet Speech Audio Codec (ISAC), and Internet Low Bitrate Codec (ILBC) audio compression codecs  Security Features  Hardware  Secure credential storage Image authentication and encryption Random bit generation Hardware cryptographic acceleration Encrypted file system  Certificate management  Wirecis 802.1x Transport Layer Security (TLS) Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FASTI) Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FASTI) Fortected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data  TLS and Secure Real-Time Transport Protocol (SRTP) Secure HTTP (HTTPS) for clients  Enterprise access  Cisco AnyConnect Secure Mobility Client Web Proxy NTLM and Kerberos authentication  Pevice Management  Remote wipe Active Sync remote wipe (email, contacts, calendar, etc.) Self-service wipe Wipe after unsuccessful login attempts		
Time and date display     Transfer     Visual Voicemail     Security Features  Hardware  Hardware      Secure credential storage     Image authentication and encryption     Random bit generation     Hardware cryptographic acceleration     Encryted file system  Certificate management  Manufacturer-installed certificates     Locally significant certificates     Locally significant certificates  Network  Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FAST)     Wireless Equivalent Privacy (WEP)     Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)     Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data      Cisco AnyConnect Secure Mobility Client	Time and date display Transfer Visual Voicemail  Audio codec support G.711a, G.711u, G.729a, G.729ab, G.722, Internet Speech Audio Codec (iSAC), and Internet Low Bitrate Codec (iLBC) audio compression codecs  Security Features  Hardware  Secure credential storage Image authentication and encryption Random bit generation Hardware cryptographic acceleration Encrypted file system Manufacturer-installed certificates Locally significant certificates Locally significant certificates Wired: 802.1x Transport Layer Security (TLS) Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FASTI) Wireless Equivalent Privacy (WEP) Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data  TLS and Secure Real-Time Transport Protocol (SRTP) Secure HTTP (HTTPS) for clients  Enterprise access Cisco AnyConnect Secure Mobility Client Web Proxy NTLM and Kerberos authentication Remote wipe R	Time and date display Transfer Visual Voicemail  Audio codec support G.711a, G.711u, G.729a, G.729ab, G.722, Internet Speech Audio Codec (iSAC), and Internet Low Bitrate Codec (iLBC) audio compression codecs  Security Features  Hardware  Secure credential storage Image authentication and encryption Random bit generation Hardware cryptographic acceleration Encrypted file system  Certificate management  Metwork  Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST]) Wireless: Wi-Fi Protocted Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST]) Wireless Equivalent Privacy (WEP) Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data  TLS and Secure Real-Time Transport Protocol (SRTP) Secure HTTP (HTTPS) for clients  Enterprise access  Cisco AnyConnect Secure Mobility Client Web Proxy NTLM and Kerberos authentication  Powice Management  Active Sync remote wipe (email, contacts, calendar, etc.) Self-service wipe Wipe after unsuccessful login attempts		
Transfer Visual Voicemail Voicemail Voicemail Audio codec support G.711a, G.711u, G.729a, G.729ab, G.722, Internet Speech Audio Codec (iSAC), and Internet Low Bitrate Codec (iLBC) audio compression codecs  Security Features  Hardware  Secure oredential storage Image authentication and encryption Random bit generation Encrypted file system  Certificate management Functional certificates Locally significant certificates Locally significant certificates Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST]) Wireless: Wi-Fi Protocol - Transport Layer Security (EAP-TLS) Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data TLS and Secure Real-Time Transport Protocol (SRTP) Secure HTTP (HTTPS) for clients  Enterprise access Cisco AnyConnect Secure Mobility Client	Transfer Visual Voicemail Voicemail Audio codec support G711a, G729a, G.729ab, G.722, Internet Speech Audio Codec (ISAC), and Internet Low Bitrate Codec (ILBC) audio compression codecs  Security Features  Hardware  Secure credential storage Image authentication and encryption Random bit generation Hardware cryptographic acceleration Encrypted file system  Certificate management Manufacturer-installed certificates Locally significant certificates Locally significant certificates Locally significant certificates Virieless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FAST)) Wireless Equivalent Privacy (WEP) Extensible Authentication Protocol - Transport Layer Security (EAP-TLS) Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data  TLS and Secure Real-Time Transport Protocol (SRTP) Secure HITTP (HITTPS) for clients Secure Thirty (HITTPS) for clients Veb Proxy NTLM and Kerberos authentication  Perice Management Remote wipe Active Sync remote wipe (email, contacts, calendar, etc.) Self-service wipe	Transfer Visual Voicemail Audio codec support G711a, G719a, G729a, G729ab, G.722, Internet Speech Audio Codec (ISAC), and Internet Low Bitrate Codec (ILBC) audio compression codecs  Security Features  Hardware Secure credential storage Image authentication and encryption Random bit generation Hardware cryptographic acceleration Encrypted file system  Metwork Wired: 802.1x Transport Layer Security (TLS) Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST) Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST) Wireless Equivalent Privacy (WEP) Extensible Authentication Protocol - Transport Layer Security (EAP-TLS) Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data TS and Secure Real-Time Transport Protocol (SRTP) Secure HTTP (HTTPS) for clients  Enterprise access Cisco AnyConnect Secure Mobility Client Web Proxy NTLM and Kerberos authentication  Pevice Management Active Sync remote wipe (email, contacts, calendar, etc.) Self-service wipe Wipe after unsuccessful login attempts		
Visual Voicemail     Voicemail     Voicemail     G.711a, G.711u, G.729a, G.729ab, G.722, Internet Speech Audio Codec (iSAC), and Internet Low Bitrate Codec (iLBC) audio compression codecs  Security Features  Hardware      Secure credential storage     Image authentication and encryption     Random bit generation     Hardware cryptographic acceleration     Encrypted file system  Certificate management      Manufacturer-installed certificates     Locally significant certificates     Locally significant certificates     Wired: 802.1x Transport Layer Security (TLS)     Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST])     Wireless Equivalent Privacy (WEP)     Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)     Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data      **Cisco AnyConnect Secure Mobility Client**	Visual Voicemail     Voicemail     Voicemail  Audio codec support     (IABC) audio compression codecs  Security Features  Hardware  Hardware      Secure credential storage     Inage authentication and encryption     Random bit generation     Pencrypted file system  Certificate management  Network  Wirred: 80.2.1x Transport Layer Security (TLS)     Wirreless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FAST))     Wirreless Equivalent Privacy (WEP)     Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data  PLS and Secure Real-Time Transport Protocol (SRTP)     Secure HTTP (HTTPS) for clients  Enterprise access  Cisco AnyConnect Secure Mobility Client     Web Proxy     NTLM and Kerberos authentication     Remote wipe     Active Sync remote wipe (email, contacts, calendar, etc.)     Self-service wipe	Visual Voicemail     Voicemail     Voicemail     Voicemail     Voicemail     Cartifa, G.711u, G.729a, G.729ab, G.722, Internet Speech Audio Codec (ISAC), and Internet Low Bitrate Codec (ILBC) audio compression codecs  Security Features  Hardware      Secure oredential storage     Image authentication and encryption     Random bit generation     Hardware cryptographic acceleration     Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST])     Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication Protocol - Transport Layer Security (EAP-TLS)     Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data     TLS and Secure Real-Time Transport Protocol (SRTP)     Secure HTTP (HTTPS) for clients     Secure HTTP (HTTPS) for clients     Vice AnyConnect Secure Mobility Client     Vice Anyconnect Secure Wolling Client     Vice Anyconnect Secure Wolling Contacts, cale		
Voicemail      Audio codec support     G.711a, G.711u, G.729a, G.729ab, G.722, Internet Speech Audio Codec (iSAC), and Internet Low Bitrate Codec (iLBC) audio compression codecs  Security Features  Hardware      Secure boot     Secure credential storage     Image authentication and encryption     Random bit generation     Hardware cryptographic acceleration     Encrypted file system  Certificate management      Manufacturer-installed certificates     Locally significant certificates     Locally significant certificates  Network      Wired: 802.1x Transport Layer Security (TLS)     Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST])     Wireless Equivalent Privacy (WEP)     Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)     Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data      **Cisco AnyConnect Secure Mobility Client**	Audio codec support G.711a, G.729a, G.729ab, G.722, Internet Speech Audio Codec (iSAC), and Internet Low Bitrate Codec (iLBC) audio compression codecs  Security Features  Hardware  Secure credential storage Inage authentication and encryption Random bit generation Hardware cryptographic acceleration Encrypted file system  Certificate management  Network  Wireld: 802.1x Transport Layer Security (TLS) Wireless: Wi-Fil Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FASTI) Wireless Equivalent Privacy (WEP) Extensible Authentication Protocol - Transport Layer Security (EAP-TLS) Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data  TLS and Secure Real-Time Transport Protocol (SRTP) Secure HTTP (HTTPS) for clients  Enterprise access Cisco AnyConnect Secure Mobility Client Web Proxy NTLM and Kerberos authentication Remote wipe ActiveSync remote wipe (email, contacts, calendar, etc.) Self-service wipe	Voicemail     G.711a, G.711u, G.729a, G.729ab, G.722, Internet Speech Audio Codec (iSAC), and Internet Low Bitrate Codec (iLBC) audio compression codecs    Security Features		
G.711a, G.711u, G.729a, G.722a, Internet Speech Audio Codec (iSAC), and Internet Low Bitrate Codec (iLBC) audio compression codecs    Security Features	G.711a, G.711u, G.729a, G.729ab, G.722, Internet Speech Audio Codec (ISAC), and Internet Low Bitrate Codec (ILBC) audio compression codecs   Security Features	G.711a, G.711u, G.729a, G.729ab, G.722, Internet Speech Audio Codec (iSAC), and Internet Low Bitrate Codec (iBC) audio compression codecs   Security Features		
Certificate management   Secure Surface Surf	Security Features  Hardware  **Secure boot **Secure develotatial storage **Image authentication and encryption **Encrypted file system  Certificate management **Encrypted file system  Network **Encrypted file system  **Enterprise access**  **Enterprise acces	Certificate management   Secure toot		Voicemail
Hardware  Secure boot Secure credential storage Image authentication and encryption Random bit generation Hardware cryptographic acceleration Encrypted file system  Certificate management  Manufacturer-installed certificates Locally significant certificates Locally significant certificates  Vired: 802.1x Transport Layer Security (TLS) Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST]) Wireless Equivalent Privacy (WEP) Extensible Authentication Protocol - Transport Layer Security (EAP-TLS) Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data  TLS and Secure Real-Time Transport Protocol (SRTP) Secure HTTP (HTTPS) for clients  Enterprise access  Cisco AnyConnect Secure Mobility Client	Hardware  • Secure boot • Secure credential storage • Image authentication and encryption • Random bit generation • Hardware cryptographic acceleration • Encrypted file system • Manufacturer-installed certificates • Locally significant certificates • Locally significant certificates  Network  • Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST]) • Wireless Equivalent Privacy (WEP) • Extensible Authentication Protocol - Transport Layer Security (EAP-TLS) • Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data  • TLS and Secure Real-Time Transport Protocol (SRTP) • Secure HTTP (HTTPS) for clients  Enterprise access  • Cisco AnyConnect Secure Mobility Client • Web Proxy • NTLM and Kerberos authentication  • Remote wipe • ActiveSync remote wipe (email, contacts, calendar, etc.) • Self-service wipe	Hardware  Secure boot Secure credential storage Image authentication and encryption Random bit generation Encrypted file system  Certificate management Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST]) Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST]) Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST]) Wireless Equivalent Privacy (WEP) Extensible Authentication Protocol - Transport Layer Security (EAP-TLS) Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data TLS and Secure Real-Time Transport Protocol (SRTP) Secure HTTP (HTTPS) for clients  Enterprise access Cisco AnyConnect Secure Mobility Client Web Proxy NTLM and Kerberos authentication  Device Management Remote wipe ActiveSync remote wipe (email, contacts, calendar, etc.) Self-service wipe Wipe after unsuccessful login attempts	Audio codec support	
Secure credential storage Image authentication and encryption Random bit generation Hardware cryptographic acceleration Encrypted file system  Certificate management Metwork  Network  Wired: 802.1x Transport Layer Security (TLS) Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST]) Wireless Equivalent Privacy (WEP) Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data  Protected Extensible Authentication Protocol (SRTP) Secure HTTP (HTTPS) for clients  Enterprise access  Cisco AnyConnect Secure Mobility Client	Secure credential storage Image authentication and encryption Random bit generation Hardware cryptographic acceleration Encrypted file system  Certificate management Wired: 802.1x Transport Layer Security (TLS) Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST]) Wireless Equivalent Privacy (WEP) Extensible Authentication Protocol - Transport Layer Security (EAP-TLS) Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data TLS and Secure Real-Time Transport Protocol (SRTP) Secure HTTP (HTTPS) for clients  Enterprise access Cisco AnyConnect Secure Mobility Client Web Proxy NTLM and Kerberos authentication Web Remote wipe ActiveSync remote wipe (email, contacts, calendar, etc.) Self-service wipe	Secure credential storage Image authentication and encryption Random bit generation Hardware cryptographic acceleration Encrypted file system  Manufacturer-installed certificates Locally significant certificates Locally significant certificates  Network  Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST]) Wireless Equivalent Privacy (WEP) Extensible Authentication Protocol - Transport Layer Security (EAP-TLS) Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data  TLS and Secure Real-Time Transport Protocol (SRTP) Secure HTTP (HTTPS) for clients  Enterprise access  Cisco AnyConnect Secure Mobility Client Web Proxy NTLM and Kerberos authentication  Device Management  Remote wipe ActiveSync remote wipe (email, contacts, calendar, etc.) Self-service wipe Wipe after unsuccessful login attempts	Security Features	
<ul> <li>Image authentication and encryption         <ul> <li>Random bit generation</li> <li>Hardware cryptographic acceleration</li> <li>Encrypted file system</li> </ul> </li> <li>Certificate management         <ul> <li>Manufacturer-installed certificates</li> <li>Locally significant certificates</li> </ul> </li> <li>Network         <ul> <li>Wired: 802.1x Transport Layer Security (TLS)</li> <li>Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST])</li> <li>Wireless: Equivalent Privacy (WEP)</li> <li>Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)</li> <li>Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)</li> </ul> </li> <li>Media and data         <ul> <li>TLS and Secure Real-Time Transport Protocol (SRTP)</li> <li>Secure HTTP (HTTPS) for clients</li> </ul> </li> <li>Enterprise access</li> <li>Cisco AnyConnect Secure Mobility Client</li> </ul>	Image authentication and encryption   Random bit generation   Hardware cryptographic acceleration   Encrypted file system   Manufacturer-installed certificates   Locally significant certificates   Locally significant certificates   Wired: 802.1x Transport Layer Security (TLS)   Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST])   Wireless Equivalent Privacy (WEP)   Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)   Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)   Media and data	Image authentication and encryption   Random bit generation   Hardware cryptographic acceleration   Encrypted file system   Manufacturer-installed certificates   Locally significant certificates   Locally significant certificates   Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FAST))   Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FAST))   Wireless Equivalent Privacy (WEP)   Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)   Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)    Media and data	Hardware	Secure boot
<ul> <li>Random bit generation</li> <li>Hardware cryptographic acceleration</li> <li>Encrypted file system</li> <li>Manufacturer-installed certificates</li> <li>Locally significant certificates</li> <li>Network</li> <li>Wired: 802.1x Transport Layer Security (TLS)</li> <li>Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST])</li> <li>Wireless Equivalent Privacy (WEP)</li> <li>Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)</li> <li>Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)</li> <li>Media and data</li> <li>**TLS and Secure Real-Time Transport Protocol (SRTP)</li> <li>Secure HTTP (HTTPS) for clients</li> <li>**Enterprise access</li> <li>**Cisco AnyConnect Secure Mobility Client</li> </ul>	Random bit generation Hardware cryptographic acceleration Encrypted file system  Manufacturer-installed certificates Locally significant certificates Locally significant certificates  Wired: 802.1x Transport Layer Security (TLS) Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST]) Wireless Equivalent Privacy (WEP) Extensible Authentication Protocol - Transport Layer Security (EAP-TLS) Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data TLS and Secure Real-Time Transport Protocol (SRTP) Secure HTTP (HTTPS) for clients  Enterprise access Cisco AnyConnect Secure Mobility Client Web Proxy NTLM and Kerberos authentication  Pevice Management Remote wipe ActiveSync remote wipe (email, contacts, calendar, etc.) Self-service wipe	Random bit generation Hardware cryptographic acceleration Encrypted file system  Certificate management  Manufacturer-installed certificates Locally significant certificates Locally significant certificates  Wired: 802.1x Transport Layer Security (TLS) Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST]) Wireless Equivalent Privacy (WEP) Extensible Authentication Protocol - Transport Layer Security (EAP-TLS) Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data  TLS and Secure Real-Time Transport Protocol (SRTP) Secure HTTP (HTTPS) for clients  Enterprise access  Cisco AnyConnect Secure Mobility Client Web Proxy NTLM and Kerberos authentication  Device Management  Remote wipe ActiveSync remote wipe (email, contacts, calendar, etc.) Self-service wipe Wipe after unsuccessful login attempts		Secure credential storage
Hardware cryptographic acceleration     Encrypted file system      Manufacturer-installed certificates     Locally significant certificates     Locally significant certificates  Network      Wired: 802.1x Transport Layer Security (TLS)     Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST])     Wireless Equivalent Privacy (WEP)     Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)     Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data      TLS and Secure Real-Time Transport Protocol (SRTP)     Secure HTTP (HTTPS) for clients  Enterprise access      Cisco AnyConnect Secure Mobility Client	<ul> <li>Hardware cryptographic acceleration</li> <li>Encrypted file system</li> <li>Manufacturer-installed certificates</li> <li>Locally significant certificates</li> <li>Network</li> <li>Wired: 802.1x Transport Layer Security (TLS)</li> <li>Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST])</li> <li>Wireless Equivalent Privacy (WEP)</li> <li>Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)</li> <li>Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)</li> <li>Media and data</li> <li>* TLS and Secure Real-Time Transport Protocol (SRTP)</li> <li>Secure HTTP (HTTPS) for clients</li> <li>Enterprise access</li> <li>* Cisco AnyConnect Secure Mobility Client</li> <li>Web Proxy</li> <li>NTLM and Kerberos authentication</li> <li>Permote wipe</li> <li>ActiveSync remote wipe (email, contacts, calendar, etc.)</li> <li>Self-service wipe</li> </ul>	Hardware cryptographic acceleration     Encrypted file system      Manufacturer-installed certificates     Locally significant certificates     Locally significant certificates  Network  Network  Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST])     Wireless Equivalent Privacy (WEP)     Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)     Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data  TLS and Secure Real-Time Transport Protocol (SRTP)     Secure HTTP (HTTPS) for clients  Enterprise access  Cisco AnyConnect Secure Mobility Client     Web Proxy     NTLM and Kerberos authentication  Pevice Management  Remote wipe     ActiveSync remote wipe (email, contacts, calendar, etc.)     Self-service wipe     Wipe after unsuccessful login attempts		Image authentication and encryption
Encrypted file system     Manufacturer-installed certificates     Locally significant certificates     Network      Wired: 802.1x Transport Layer Security (TLS)     Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST])     Wireless Equivalent Privacy (WEP)     Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)     Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data      TLS and Secure Real-Time Transport Protocol (SRTP)     Secure HTTP (HTTPS) for clients  Enterprise access      Cisco AnyConnect Secure Mobility Client	Encrypted file system      Manufacturer-installed certificates     Locally significant certificates     Network  Network  Wired: 802.1x Transport Layer Security (TLS)     Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST])     Wireless Equivalent Privacy (WEP)     Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)     Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data  TLS and Secure Real-Time Transport Protocol (SRTP)     Secure HTTP (HTTPS) for clients  Enterprise access     Cisco AnyConnect Secure Mobility Client     Web Proxy     NTLM and Kerberos authentication  Device Management     Remote wipe     ActiveSync remote wipe (email, contacts, calendar, etc.)     Self-service wipe	Encrypted file system      Manufacturer-installed certificates     Locally significant certificates      Network      Wired: 802.1x Transport Layer Security (TLS)     Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST])     Wireless Equivalent Privacy (WEP)     Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)     Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data      TLS and Secure Real-Time Transport Protocol (SRTP)     Secure HTTP (HTTPS) for clients  Enterprise access      Cisco AnyConnect Secure Mobility Client     Web Proxy     NTLM and Kerberos authentication  Device Management      Remote wipe     ActiveSync remote wipe (email, contacts, calendar, etc.)     Self-service wipe     Wipe after unsuccessful login attempts		Random bit generation
Certificate management  Manufacturer-installed certificates Locally significant certificates  Wired: 802.1x Transport Layer Security (TLS) Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST]) Wireless Equivalent Privacy (WEP) Extensible Authentication Protocol - Transport Layer Security (EAP-TLS) Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data TLS and Secure Real-Time Transport Protocol (SRTP) Secure HTTP (HTTPS) for clients  Enterprise access  Cisco AnyConnect Secure Mobility Client	Certificate management  • Manufacturer-installed certificates • Locally significant certificates  • Wired: 802.1x Transport Layer Security (TLS) • Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST]) • Wireless Equivalent Privacy (WEP) • Extensible Authentication Protocol - Transport Layer Security (EAP-TLS) • Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data • TLS and Secure Real-Time Transport Protocol (SRTP) • Secure HTTP (HTTPS) for clients  Enterprise access • Cisco AnyConnect Secure Mobility Client • Web Proxy • NTLM and Kerberos authentication  Device Management • Remote wipe • ActiveSync remote wipe (email, contacts, calendar, etc.) • Self-service wipe	Certificate management  Manufacturer-installed certificates Locally significant certificates  Wired: 802.1x Transport Layer Security (TLS) Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST]) Wireless Equivalent Privacy (WEP) Extensible Authentication Protocol - Transport Layer Security (EAP-TLS) Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data TLS and Secure Real-Time Transport Protocol (SRTP) Secure HTTP (HTTPS) for clients  Enterprise access Cisco AnyConnect Secure Mobility Client Web Proxy NTLM and Kerberos authentication  Device Management Remote wipe ActiveSync remote wipe (email, contacts, calendar, etc.) Self-service wipe Wipe after unsuccessful login attempts		Hardware cryptographic acceleration
Locally significant certificates      Wired: 802.1x Transport Layer Security (TLS)     Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST])     Wireless Equivalent Privacy (WEP)     Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)     Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data     TLS and Secure Real-Time Transport Protocol (SRTP)     Secure HTTP (HTTPS) for clients  Enterprise access     Cisco AnyConnect Secure Mobility Client	Device Management	Device Management  • Locally significant certificates  • Wired: 802.1x Transport Layer Security (TLS) • Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST]) • Wireless Equivalent Privacy (WEP) • Extensible Authentication Protocol - Transport Layer Security (EAP-TLS) • Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data • TLS and Secure Real-Time Transport Protocol (SRTP) • Secure HTTP (HTTPS) for clients  Enterprise access • Cisco AnyConnect Secure Mobility Client • Web Proxy • NTLM and Kerberos authentication  Device Management • Remote wipe • ActiveSync remote wipe (email, contacts, calendar, etc.) • Self-service wipe • Wipe after unsuccessful login attempts		Encrypted file system
Locally significant certificates      Wired: 802.1x Transport Layer Security (TLS)     Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST])     Wireless Equivalent Privacy (WEP)     Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)     Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data     TLS and Secure Real-Time Transport Protocol (SRTP)     Secure HTTP (HTTPS) for clients  Enterprise access     Cisco AnyConnect Secure Mobility Client	Device Management	Device Management  • Locally significant certificates  • Wired: 802.1x Transport Layer Security (TLS) • Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST]) • Wireless Equivalent Privacy (WEP) • Extensible Authentication Protocol - Transport Layer Security (EAP-TLS) • Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data • TLS and Secure Real-Time Transport Protocol (SRTP) • Secure HTTP (HTTPS) for clients  Enterprise access • Cisco AnyConnect Secure Mobility Client • Web Proxy • NTLM and Kerberos authentication  Device Management • Remote wipe • ActiveSync remote wipe (email, contacts, calendar, etc.) • Self-service wipe • Wipe after unsuccessful login attempts	Certificate management	Manufacturer-installed certificates
Wired: 802.1x Transport Layer Security (TLS)     Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST])     Wireless Equivalent Privacy (WEP)     Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)     Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data     TLS and Secure Real-Time Transport Protocol (SRTP)     Secure HTTP (HTTPS) for clients  Enterprise access     Cisco AnyConnect Secure Mobility Client	Network  • Wired: 802.1x Transport Layer Security (TLS) • Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST]) • Wireless Equivalent Privacy (WEP) • Extensible Authentication Protocol - Transport Layer Security (EAP-TLS) • Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data • TLS and Secure Real-Time Transport Protocol (SRTP) • Secure HTTP (HTTPS) for clients  Enterprise access • Cisco AnyConnect Secure Mobility Client • Web Proxy • NTLM and Kerberos authentication  Device Management • Remote wipe • ActiveSync remote wipe (email, contacts, calendar, etc.) • Self-service wipe	Network  • Wired: 802.1x Transport Layer Security (TLS) • Wireless: Wi-Fi Protected Access 2 (WPA2) (Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling [EAP-FAST]) • Wireless Equivalent Privacy (WEP) • Extensible Authentication Protocol - Transport Layer Security (EAP-TLS) • Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data • TLS and Secure Real-Time Transport Protocol (SRTP) • Secure HTTP (HTTPS) for clients  Enterprise access • Cisco AnyConnect Secure Mobility Client • Web Proxy • NTLM and Kerberos authentication  Device Management • Remote wipe • ActiveSync remote wipe (email, contacts, calendar, etc.) • Self-service wipe • Wipe after unsuccessful login attempts	Cortinoato managomoni	
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Secure Tunneling [EAP-FAST])  • Wireless Equivalent Privacy (WEP)  • Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)  • Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data  • TLS and Secure Real-Time Transport Protocol (SRTP)  • Secure HTTP (HTTPS) for clients  Enterprise access  • Cisco AnyConnect Secure Mobility Client	Secure Tunneling [EAP-FAST])  Wireless Equivalent Privacy (WEP)  Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)  Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data  TLS and Secure Real-Time Transport Protocol (SRTP)  Secure HTTP (HTTPS) for clients  Cisco AnyConnect Secure Mobility Client  Web Proxy  NTLM and Kerberos authentication  Pevice Management  Remote wipe  ActiveSync remote wipe (email, contacts, calendar, etc.)  Self-service wipe	Secure Tunneling [EAP-FAST])  Wireless Equivalent Privacy (WEP)  Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)  Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data  TLS and Secure Real-Time Transport Protocol (SRTP)  Secure HTTP (HTTPS) for clients  Cisco AnyConnect Secure Mobility Client  Web Proxy  NTLM and Kerberos authentication  Pevice Management  Remote wipe  ActiveSync remote wipe (email, contacts, calendar, etc.)  Self-service wipe  Wipe after unsuccessful login attempts	Network	
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<ul> <li>Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)</li> <li>Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)</li> <li>Media and data</li> <li>TLS and Secure Real-Time Transport Protocol (SRTP)</li> <li>Secure HTTP (HTTPS) for clients</li> <li>Cisco AnyConnect Secure Mobility Client</li> </ul>	Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)     Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  Media and data     TLS and Secure Real-Time Transport Protocol (SRTP)     Secure HTTP (HTTPS) for clients  Enterprise access     Cisco AnyConnect Secure Mobility Client     Web Proxy     NTLM and Kerberos authentication  Device Management     Remote wipe     ActiveSync remote wipe (email, contacts, calendar, etc.)     Self-service wipe	Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)     Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)      TLS and Secure Real-Time Transport Protocol (SRTP)     Secure HTTP (HTTPS) for clients      Cisco AnyConnect Secure Mobility Client     Web Proxy     NTLM and Kerberos authentication  Pevice Management     Remote wipe     ActiveSync remote wipe (email, contacts, calendar, etc.)     Self-service wipe     Wipe after unsuccessful login attempts		
Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)      TLS and Secure Real-Time Transport Protocol (SRTP)     Secure HTTP (HTTPS) for clients      Cisco AnyConnect Secure Mobility Client	Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)      TLS and Secure Real-Time Transport Protocol (SRTP)     Secure HTTP (HTTPS) for clients      Cisco AnyConnect Secure Mobility Client     Web Proxy     NTLM and Kerberos authentication  Pevice Management     Remote wipe     ActiveSync remote wipe (email, contacts, calendar, etc.)     Self-service wipe	Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)  TLS and Secure Real-Time Transport Protocol (SRTP) Secure HTTP (HTTPS) for clients  Cisco AnyConnect Secure Mobility Client Web Proxy NTLM and Kerberos authentication  Pevice Management Remote wipe ActiveSync remote wipe (email, contacts, calendar, etc.) Self-service wipe Wipe after unsuccessful login attempts		
Media and data          • TLS and Secure Real-Time Transport Protocol (SRTP)         • Secure HTTP (HTTPS) for clients          Enterprise access          • Cisco AnyConnect Secure Mobility Client	Media and data  • TLS and Secure Real-Time Transport Protocol (SRTP) • Secure HTTP (HTTPS) for clients  Enterprise access  • Cisco AnyConnect Secure Mobility Client • Web Proxy • NTLM and Kerberos authentication  Device Management • Remote wipe • ActiveSync remote wipe (email, contacts, calendar, etc.) • Self-service wipe	Media and data  • TLS and Secure Real-Time Transport Protocol (SRTP) • Secure HTTP (HTTPS) for clients  Enterprise access  • Cisco AnyConnect Secure Mobility Client • Web Proxy • NTLM and Kerberos authentication  Device Management • Remote wipe • ActiveSync remote wipe (email, contacts, calendar, etc.) • Self-service wipe • Wipe after unsuccessful login attempts		
Secure HTTP (HTTPS) for clients     Cisco AnyConnect Secure Mobility Client	Secure HTTP (HTTPS) for clients      Cisco AnyConnect Secure Mobility Client     Web Proxy     NTLM and Kerberos authentication  Pevice Management     Remote wipe     ActiveSync remote wipe (email, contacts, calendar, etc.)     Self-service wipe	Secure HTTP (HTTPS) for clients     Cisco AnyConnect Secure Mobility Client     Web Proxy     NTLM and Kerberos authentication  Pevice Management     Remote wipe     ActiveSync remote wipe (email, contacts, calendar, etc.)     Self-service wipe     Wipe after unsuccessful login attempts	Madia and data	
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·	Web Proxy     NTLM and Kerberos authentication  Pevice Management  Remote wipe     ActiveSync remote wipe (email, contacts, calendar, etc.)     Self-service wipe	Web Proxy     NTLM and Kerberos authentication  Pevice Management     Remote wipe     ActiveSync remote wipe (email, contacts, calendar, etc.)     Self-service wipe     Wipe after unsuccessful login attempts		
Web Proxy	NTLM and Kerberos authentication      Remote wipe     ActiveSync remote wipe (email, contacts, calendar, etc.)     Self-service wipe	NTLM and Kerberos authentication  Remote wipe     ActiveSync remote wipe (email, contacts, calendar, etc.)     Self-service wipe     Wipe after unsuccessful login attempts	Enterprise access	
	Remote wipe     ActiveSync remote wipe (email, contacts, calendar, etc.)     Self-service wipe	Remote wipe     ActiveSync remote wipe (email, contacts, calendar, etc.)     Self-service wipe     Wipe after unsuccessful login attempts		
NTLM and Kerberos authentication	<ul><li>ActiveSync remote wipe (email, contacts, calendar, etc.)</li><li>Self-service wipe</li></ul>	<ul> <li>ActiveSync remote wipe (email, contacts, calendar, etc.)</li> <li>Self-service wipe</li> <li>Wipe after unsuccessful login attempts</li> </ul>		NTLM and Kerberos authentication
Device Management • Remote wipe	Self-service wipe	<ul><li>Self-service wipe</li><li>Wipe after unsuccessful login attempts</li></ul>	Device Management	Remote wipe
ActiveSync remote wipe (email, contacts, calendar, etc.)		Wipe after unsuccessful login attempts		ActiveSync remote wipe (email, contacts, calendar, etc.)
Self-service wipe	Land to the second seco			Self-service wipe
	Wipe after unsuccessful login attempts	Contamy recent		Wipe after unsuccessful login attempts
Wipe after unsuccessful login attempts		▼ Factory reset		Factory reset

Feature	Specifications
Policy management	Password complexity
	Disable USB
	Secure Digital I/O (SDIO) enable/disable
	Bluetooth
	• Wi-Fi
	Access to Android market
	Lock device
	Android debug bridge

Table 3. Video Specifications

Specification	Description
Video standards	H.264 and AVC
Frame rates	30 fps (maximum) using H.264 and AVC for videoconferencing
Frame or picture formats	CIF (352 x 288 pixels)  VGA (640 x 480 pixels)  240p (432 x 240 pixels)  360p (640 x 360 pixels)  480p (848 x 480 pixels)  WSVGA (1024 x 600 pixels)  720p (1280 x 720 pixels)  1080p (1920 x 1080 pixels)
Supported HDMI resolutions	1920x1200 (WUXGA) 1920x1080 (1080p) 1280x720 (720p) 1680x1050

# Licensing

Phone licensing is dependent on the call-control platform and its policies. For the Cisco Unified Communications Manager, the Cisco DX650 requires four Device License Units (DLUs) or an Enhanced IP User Connect License for Cisco Unified Communications Manager Release 7.1(5) and later. There are no special licenses plus phone bundles for tier 2 distributors. The DX650 is not supported on third-party call-control systems.

# Warranty Information

Find warranty information on Cisco.com at the **Product Warranties** page.

# **Ordering Information**

You can order the Cisco DX650 as a standalone product. If you plan to deploy the DX650 in an environment that does not use PoE, you should order the Power Cube 4 and use it to power the endpoint. To replace a broken handset or coil cord, you can order the spare handset and coil cord for the DX650 separately.

To place an order, visit the <u>Cisco Ordering Home Page</u> and refer to Tables 4 through 6. To download software, visit the <u>Cisco Software Center</u>.

 Table 4.
 Ordering Information

Product Name	Part Number
Cisco Desktop Collaboration Experience DX650	CP-DX650-K9=

Table 5. Spare Parts

Product Name	Part Number
Spare Handset for Cisco Desktop Collaboration Experience DX650	CP-DX-HS=
Spare Coil Cord for Cisco Desktop Collaboration Experience DX650	CP-DX-CORD=

Table 6. Local Power Options: Cube and Regional Cords

(Note: The Cisco DX650 uses the same Power Cube 4 configuration that is available for the Cisco Unified IP Phone 8900 and 9900 Series endpoints. Power Cube 4 supports up to 44W and is internationally rated for different power grids worldwide.)

Product Name	Part Number
Cisco Unified IP Endpoint Power Cube 4: 48V; 0.917A; 47-63Hz; 100-240V~0.8A	CP-PWR-CUBE-4=
Asia Pacific	CP-PWR-CORD-AP=
Argentina	CP-PWR-CORD-AR=
Australia	CP-PWR-CORD-AU=
European Community	CP-PWR-CORD-CE=
China	CP-PWR-CORD-CN=
Japan	CP-PWR-CORD-JP=
North America	CP-PWR-CORD-NA=
Switzerland	CP-PWR-CORD-SW=
United Kingdom	CP-PWR-CORD-UK=

#### Cisco Services

Using the Cisco Lifecycle Services approach, Cisco and our partners offer a broad portfolio of end-to-end services to support the Cisco Unified Communications System. These services are based on proven methodologies for deploying, operating, and optimizing IP communications solutions. Initial planning and design services, for example, can help you meet aggressive deployment schedules and reduce network disruption during implementation. Operate services reduce the risk of communications downtime with expert technical support, and optimize services enhance solution performance for operational excellence. Cisco and our partners offer a system-level service and support approach that can help you create and maintain a resilient, converged network that meets your business needs.

#### For More Information

For more information about the Cisco Desktop Collaboration Experience DX650, visit <a href="http://www.cisco.com/go/dce">http://www.cisco.com/go/dce</a> or contact your local Cisco account representative.

# cisco

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